JULIAN KLUG

CURRENT POSITION

GHOL - Hospital Nyon **Switzerland**
Physician, Internal Medicine, Emergency Medicine and Critical Care Medicine *Since 2020*

EDUCATION

University of Geneva **Switzerland**
Doctorate in Human Medicine *Since 2020*
Bachelor & Master of Medicine *2013-2020*

Lycée International de Ferney-Voltaire **France**
Baccalauréat scientifique à Option Internationale (*19,5/20*) *2010-2013*
German Abitur (*1,0 in system of 1-best to 6-worst*)

PAST WORK EXPERIENCE

Project leader **Geneva, Switzerland**
Vlynt, Distributed content delivery network *2016-2019*

Teacher of physics, chemistry, biology, physiology and anatomy **Geneva, Switzerland**
Med Prep *2014-2017*

Research and teaching assistant, Anatomy department **Geneva University, Switzerland**
2016

DISTINCTIONS

Best Poster Award, Innovation centre, HUG **Geneva, Switzerland**
2019

Finalist, START contest **Lausanne, Switzerland**
2017

Prize on the internship in general medicine, Faculty of Medicine **Geneva University, Switzerland**
2015

Gold medallist, French national *Geoscience Olympics* **France**
2012

EXTRA-CURRICULAR POSITIONS

Research program for medical students **Harvard University, USA**
Lee Lab, Eaton-Peabody Laboratories, Massachusetts Eye & Ear Infirmary *2016&2017*

External consultant, Division for foreign economic policy **Berlin, Germany**
Federal Foreign Office *October-December 2016*

Research program for medical students **Geneva University, Switzerland**
Laboratory for neurology and imaging of cognition *July-August 2015*

<u>PROJECTS</u>

Construction of a platform for the use of **machine learning models in clinical practice**, *Kassandra*

Geneva, Switzerland
Since 2020

Construction of a platform for **outpatient-hospital communication**
PHI

Geneva, Switzerland
2018-2020

Machine learning in the prediction of the fate of the ischemic penumbra after stroke *Carrera Lab*, HUG and *MIP Lab*, EPFL

Geneva, Switzerland
Since 2017

Study on **infection prevention and control** in the Bolivian Altiplano
Professor Didier Pittet and Professor Benedetta Allegranzi
(WHO & Faculty of Medicine, University of Geneva)

Bolivia
2016

<u>PEER-REVIEWED PUBLICATIONS</u>

Julian Klug, Guillaume Leclerc, Elisabeth Dirren, Maria Giulia Preti, Dimitri Van De Ville and Emmanuel Carrera. Bayesian Skip Net: Building on Prior Information for the Prediction and Segmentation of Stroke Lesions. *Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries. BrainLes 2020. Lecture Notes in Computer Science.* March 2021.

Julian Klug, Elisabeth Dirren, Giulia Preti, Paolo Machi, Andreas Kleinschmidt, Isabel M. Vargas, Dimitri Van De Ville, Emmanuel Carrera. Integrating regional perfusion CT information to improve prediction of infarction after stroke. *Journal of Cerebral Blood Flow & Metabolism*. June 2020.

Indrit Bègue, Rebekah Blakemore, **Julian Klug,** Yann Cojan, Silvio Galli, Alexandre Berneye, Selma Aybek, Patrik Vuilleumier. Metacognition of visuomotor decisions in conversion disorder. *Neuropsychologia*. June 2018.

Vivek V. Kanumuri, Osama Tarabichi, **Julian Klug**, Nicolas Vachicouras, Maria J. Duarte, Elliott D. Kozin, Stéphanie P. Lacour, M. Christian Brown, Daniel J. Lee. Three-dimensional Surface Reconstruction of the Human Cochlear Nucleus: Implications for the ABI. *Otolaryngology–Head and Neck Surgery*, February 2018.

<u>CONFERENCE PROCEEDINGS</u>

Julian Klug, Guillaume Leclerc, Elisabeth Dirren, Preti Maria Gulia, Dimitri Van De Ville, Emmanuel Carrera. Deep Learning Building on Prior Ischemic Core Segmentation Improves Prediction of Infarction After Stroke. *International Stroke Conference 2021*. March 2021.

Jose Bernardo Escribano Paredes, **Julian Klug**, Elisabeth Dirren, Nicolae Sanda, Maria Vargas, Paolo Machi, Emmanuel Carrera. Perfusion-Guided Bridging Therapy in Strokes With Unknown Time of Onset and Large Vessel Occlusion. *International Stroke Conference 2021*. March 2021.

Julian Klug, Elisabeth Dirren, Giulia Preti, Paolo Machi, Andreas Kleinschmidt, Isabel M. Vargas, Dimitri Van De Ville, Emmanuel Carrera. Integrating regional perfusion CT information improves prediction of infarction after stroke. *ESO-WSO 2020 Conference*. November 2020.

Julian Klug, Elisabeth Dirren, Giulia Preti, Paolo Machi, Andreas Kleinschmidt, Isabel M. Vargas, Dimitri Van De Ville, Emmanuel Carrera. Integrating regional perfusion CT information to multiparametric models improves prediction of infarction after stroke. *CIBM 15th Anniversary Event*, October 2019.

Vivek V. Kanumuri, **Julian Klug**, Osama Tarabichi, Samuel Barber, Marybeth E. Cunnane, M. Christian Brown, Aaron Remenschneider, Elliott D. Kozin, Daniel J. Lee. Diffusion Tensor Imaging in Candidates for the Auditory Brainstem Implant. Poster presented at *ARO 40th MidWinter Meeting*, February 2017, Baltimore, USA.

Organisation of continuing medical education for residents in internal medicine **Switzerland**
and surgery during the COVID-19 pandemic *Since 2020*

Supervision of individual projects of master students at the *MIP-Lab, EPFL* **Geneva, Switzerland**
Since 2020

ADMINISTRATIVE AND COLLECTIVE DUTIES

Occasional reviewer for *Stroke: A Journal of Cerebral Circulation* and *Theranostics.*

COMMUNITY INVOLVMENT

Blood donation campaigns (Geneva University)
HIV awareness campaign (Lycée International de Ferney-Voltaire)

SKILLS

Languages: German (native), French (native), English (fluent, C1), Spanish (A2)
Computer languages: Javascript, Python, R, Java, Bash Shell Scripting, Matlab, HTML5, CSS
Development skills: Machine Learning, devops, browser and network technologies, project management

INTERESTS guitar, mathematics, international politics, rock-climbing, backcountry skiing, art and theatre enthusiast